

Interoffice Memorandum

From: Eric Chapoulaud

Date: October 6, 1997

To: Albert Ruiz-Vela

Subject: Monthly Report – September 1997
Product Development
& Engineering

INFORMATION –

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ORTHODONTIC PRODUCTS

RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS

CustomR, CUSTOM LABIAL APPLIANCE SYSTEM (Project 853-E Craig Andreiko/Eric Chapoulaud)

a. Lab Reopening (Craig Andreiko)

1) Accomplishments / Status

- ☒ Our set-up program is now able to design the mandibular set-up, using scanned 3D images of the lower jaw.
- ☒ Maxillary Case assembly was halted due to unreliable operation of the 3D wax printer. Priority was set to develop the set-up software.

2) Goals For November

- ☐ Improve the set-up design rules using our new 3D approach, and verify these new rules with our PK Thomas case and the standard mal-positioned case.
- ☐ Adapt the appliance design software to the new set-up functions.
- ☐ Design and manufacture Jigs for the Mandibular set-up.
- ☐ Improve the teeth 3D modelisation for appearance and speed.

3) Major Project Milestone

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- ⊙ Lower/upper setup for the PK Thomas case: November 97
- b. 3D Digitizing (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - ☒ No Action this month
 - ☒ A backlash problem was detected in the Z Axis of the scanner. A Newport technician was called upon to repair the axis.
 - 2) Goals For November
 - ☐ Reinstall the repaired Z axis. Realign the Z axis to the correct position.
 - ☐ Recalibrate the Scanner, using standard procedure.
 - ☐ Scan a standard mal-positionned case, to use as test data with the new set-up software being developed.
 - 3) Major Project Milestone
 - ⊙ First Clinical case scan: November 97.
- c. Bracket Fabrication (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - ☒ Hardware upgrade of the ModelMaker II was installed by Sanders.
 - ☒ Printed better quality parts.
 - ☒ Slicing Software upgrade for better reliability.
 - 2) Goals For November
 - ☐ Print and cast parts to improve the process.
 - 3) Major Project Milestone
 - ⊙ Reliable printing operation: January 98.